



08-29-05

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PATENT  
Customer No. 22,852  
Attorney Docket No. 9146.0001-01

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

RAGHAVAN, Sreen A. et al.

Application No.: 09/965,242

Filed: September 26, 2001

For: LOW COMPLEXITY HIGH SPEED  
COMMUNICATIONS TRANSCEIVER

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)  
) Group Art Unit: 2638  
)  
) Examiner: WILLIAMS, Lawrence B.  
)  
)  
) Confirmation No.: 3308  
)

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(c)**

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(c), applicants bring to the attention of the Examiner the documents on the attached listing. This Information Disclosure Statement is being filed after the events recited in Section 1.97(b) but, to the undersigned's knowledge, before the mailing date of either a Final action, Quayle action, or a Notice of Allowance. Under the provisions of 37 C.F.R. § 1.97(c), the Commissioner is hereby authorized to charge the fee of \$180.00 to deposit account 06-0916 as specified by Section 1.17(p).

Copies of the listed foreign and non-patent literature documents are attached. Copies of the U.S. patents and patent publications are not enclosed.

Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

08/30/2005 CNGUYEN2 00000053 060916 09965242

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This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claims in the application and applicants determine that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there is any fee due in connection with the filing of this Statement, please charge the fee to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

Dated: August 24, 2004

By: 

Gary J. Edwards  
Reg. No. 41,008

<b>EXPRESS MAIL LABEL NO.</b> <b>EV 727733675 US</b>
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IDS Form PTO/SB/08: Substitute for form 1449A

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

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of

2

**Complete if Known**

Application Number	09/965,242
Filing Date	September 26, 2001
First Named Inventor	RAGHAVAN, Sreen A.
Art Unit	2638
Examiner Name	WILLIAMS, Lawrence B.
Attorney Docket Number	9146.0001-01

**U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS**

Examiner Initials	Cite No. <sup>1</sup>	Document Number	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US-2004/0162023	08-19-2004	Cho	
		US-2004/0137941	07-15-2004	Tanaka et al.	
		US-2004/0121753	06-24-2004	Sugar et al.	
		US-2004/0106380	06-03-2004	Vassiliou et al.	
		US-2004/0091028	05-13-2004	Aronson et al.	
		US-2003/0054782	03-20-2003	Snider	
		US-2003/0017809	01-23-2003	Garlepp et al.	
		US-2002/0163974 A1	11-07-2002	Friedman	
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		US-6,804,497	10-12-2004	Kerth et al.	
		US-6,731,704	05-04-2004	Kiyanagi	
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		US-5,838,740	11-17-1998	Kallman et al.	
		US-5,822,368 A	10-13-1998	Wang	
		US-5,285,474 A	02-08-1994	Chow et al.	
		US-4,679,225	07-07-1987	Higashiyama	

**Note: Submission of copies of U.S. Patents and published U.S. Patent Applications is not required.****FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		EP 0554056 B1	05-27-1998	Fujitsu Limited		
		EP 0987830 A	03-22-2000	Mitsubishi Electric Corp.		
		WO 99/45683	09-10-1999	Kestrel Solutions, Inc.		
		WO 00/51303 A	08-31-2000	Aware Inc.		
		WO 03/007564 A	01-23-2003	Myrica Networks Inc.		

Examiner  
SignatureDate  
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



EXPRESS MAIL NO. EV 727733675 US

<b>IDS Form PTO/SB/08: Substitute for form 1449A</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	09/965,242		
		Filing Date	September 26, 2001		
		First Named Inventor	RAGHAVAN, Sreen A.		
		Art Unit	2638		
		Examiner Name	WILLIAMS, Lawrence B.		
Sheet	2	of	2	Attorney Docket Number	9146.0001-01

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation <sup>6</sup>
		CLARK, JR., G.C. and CAIN, J.B., Error Correction Coding for Digital Communications (Plenum Press, New York 1981) pp 253-264.	
		International Search Report dated July 12, 2004, from corresponding PCT Application No. PCT/US04/014538.	
		LEE, EDWARD A. and MESSERSCHMITT, DAVID G., Digital Communications (Kluwer Academic Publishers, 1988) pp 371-402.	
		SKLAR, BERNARD, Digital Communications, Fundamentals and Applications (Prentice-Hall, Inc., 1988), pages 51-244 and 314-535.	
		UNGERBOECK, G., "Channel Coding with Multilevel/Phase Signals," IEEE Transactions on Information Theory, vol It-28, January 1982, pp 55-67.	
		UNGERBOECK, G., "Trellis Coding Modulation with Redundant Signal Sets, Part I. Introduction." IEEE Communications Magazine, vol. 25, no. 2, Feb. 1987, pp. 12-21.	

Examiner Signature		Date Considered	
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